

RAW SEQUENCE LISTING

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Application Serial Number: 10/563,571
Source: IFWP
Date Processed by STIC: 1/19/06

ENTERED



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/563,571

DATE: 01/19/2006

TIME: 13:30:56

Input Set : A:\PCT-IN2003-000235 Sequence listing.txt
 Output Set: N:\CRF4\01192006\J563571.raw

3 <110> APPLICANT: University of Delhi South Campus
 4 Dhara Vegetable Oil and Food Company Limited
 5 Bisht, Naveen Chandra
 6 Jagannath, Arun
 7 Gupta, Vibha
 8 Burma, Pradeep Kumar
 9 Pental, Deepak

11 <120> TITLE OF INVENTION: A METHOD FOR OBTAINING IMPROVED FERTILITY RESTORER LINES IN

MALE

12 STERILE CROP PLANTS FOR HYBRID SEED PRODUCTION AND A DNA
 13 CONSTRUCT FOR USE IN SAID METHOD

15 <130> FILE REFERENCE: HSM-DU-AJ

C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/563,571

C--> 17 <141> CURRENT FILING DATE: 2006-01-06

17 <160> NUMBER OF SEQ ID NOS: 18

19 <170> SOFTWARE: PatentIn version 3.3

21 <210> SEQ ID NO: 1

22 <211> LENGTH: 273

23 <212> TYPE: DNA

24 <213> ORGANISM: Bacillus amyloliquefaciens

26 <400> SEQUENCE: 1

27 atgaaaaaaag cagtattaa cgggaaacaa atcagaagta tcagcgacct ccaccagaca	60
29 ttgaaaaagg agcttgcct tccgaaatac tacggtaaa acctggacgc tttatggat	120
31 tgtctgaccg gatgggtcga gtacccgctc gttttggaat ggaggcagtt tgaacaaagc	180
33 aagcagctga ctgaaaatgg cgccgagagt gtgcttcagg tttccgtga agcggaaagcg	240
35 gaaggctgcg acatcaccat catactttct taa	273

38 <210> SEQ ID NO: 2

39 <211> LENGTH: 90

40 <212> TYPE: PRT

41 <213> ORGANISM: Bacillus amyloliquefaciens

43 <400> SEQUENCE: 2

45 Met Lys Lys Ala Val Ile Asn Gly Glu Gln Ile Arg Ser Ile Ser Asp	
--	--

46 1 5 10 15	
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49 Leu His Gln Thr Leu Lys Lys Glu Leu Ala Leu Pro Glu Tyr Tyr Gly	
--	--

50 20 25 30	
-------------	--

53 Glu Asn Leu Asp Ala Leu Trp Asp Cys Leu Thr Gly Trp Val Glu Tyr	
--	--

54 35 40 45	
-------------	--

57 Pro Leu Val Leu Glu Trp Arg Gln Phe Glu Gln Ser Lys Gln Leu Thr	
--	--

58 50 55 60	
-------------	--

61 Glu Asn Gly Ala Glu Ser Val Leu Gln Val Phe Arg Glu Ala Lys Ala	
--	--

62 65 70 75 80	
----------------	--

65 Glu Gly Cys Asp Ile Thr Ile Ile Leu Ser	
--	--

66 85 90	
----------	--

69 <210> SEQ ID NO: 3

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70 <211> LENGTH: 273
 71 <212> TYPE: DNA
 72 <213> ORGANISM: Artificial sequence
 74 <220> FEATURE:
 75 <223> OTHER INFORMATION: This sequence was artificially generated from a wild type
 barstar
 76 gene
 78 <400> SEQUENCE: 3
 79 atgaagaagg ctgtgatcaa tggagaacaa atcagatcta tctcagacct tcataaact 60
 81 ttgaagaagg agcttgctct tcctgagtac tatggtgaga acttggacgc tttgtggat 120
 83 tgtcttaactg gatgggttga gtaccctctt gttttgaat ggaggcaatt cgagcaatct 180
 85 aagcaactta ctgagaatgg agctgagagc gttctcaag tgtttagaga agctaaggct 240
 87 gaaggatgtg acatcaactat cattcttct taa 273
 90 <210> SEQ ID NO: 4
 91 <211> LENGTH: 90
 92 <212> TYPE: PRT
 93 <213> ORGANISM: Bacillus amyloliquefaciens
 95 <400> SEQUENCE: 4
 97 Met Lys Lys Ala Val Ile Asn Gly Glu Gln Ile Arg Ser Ile Ser Asp
 98 1 5 10 15
 101 Leu His Gln Thr Leu Lys Lys Glu Leu Ala Leu Pro Glu Tyr Tyr Gly
 102 20 25 30
 105 Glu Asn Leu Asp Ala Leu Trp Asp Cys Leu Thr Gly Trp Val Glu Tyr
 106 35 40 45
 109 Pro Leu Val Leu Glu Trp Arg Gln Phe Glu Gln Ser Lys Gln Leu Thr
 110 50 55 60
 113 Glu Asn Gly Ala Glu Ser Val Leu Gln Val Phe Arg Glu Ala Lys Ala
 114 65 70 75 80
 117 Glu Gly Cys Asp Ile Thr Ile Ile Leu Ser
 118 85 90
 121 <210> SEQ ID NO: 5
 122 <211> LENGTH: 84
 123 <212> TYPE: DNA
 124 <213> ORGANISM: Artificial Sequence
 126 <220> FEATURE:
 127 <223> OTHER INFORMATION: This oligo was synthetically generated
 129 <400> SEQUENCE: 5
 130 atgaagaagg ctgtgatcaa tggagaacaa atcagatcta tctcagacct tcataaact 60
 132 ttgaagaagg agcttgctct tcct 84
 135 <210> SEQ ID NO: 6
 136 <211> LENGTH: 85
 137 <212> TYPE: DNA
 138 <213> ORGANISM: Artificial sequence
 140 <220> FEATURE:
 141 <223> OTHER INFORMATION: This oligo was synthetically generated
 143 <400> SEQUENCE: 6
 144 aagagggtac tcaacccatc cagtaagaca atcccacaaa gcgtccaagt tctcaccata 60
 146 gtactcagga agagcaagct ccttc 85
 149 <210> SEQ ID NO: 7
 150 <211> LENGTH: 86

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151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: This oligo was synthetically generated
157 <400> SEQUENCE: 7
158 ggatgggttg agtaccctct tggggaa tggaggcaat tcgagcaatc taagcaactt      60
160 actgagaatg gagctgagag cgttct          86
163 <210> SEQ ID NO: 8
164 <211> LENGTH: 78
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: This oligo was synthetically generated
171 <400> SEQUENCE: 8
172 ttaagaaaaga atgatagtga tgcacatcc ttcagccta gcttctcaa acacttgaag      60
174 aacgctctca gctccatt          78
177 <210> SEQ ID NO: 9
178 <211> LENGTH: 30
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Thsi forward primer was synthetically generated
185 <400> SEQUENCE: 9
186 ggctcgagcc accatgaaga aggctgtat          30
189 <210> SEQ ID NO: 10
190 <211> LENGTH: 29
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: This reverse primer was synthetically generated
197 <400> SEQUENCE: 10
198 ctagtctaga ttaagaaaaga atgatagtg          29
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 17
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: This mutagenic primer was synthetically generated
209 <400> SEQUENCE: 11
210 tccccacaaag cgtccaa          17
213 <210> SEQ ID NO: 12
214 <211> LENGTH: 17
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: This mutagenic primer was synthetically generated
221 <400> SEQUENCE: 12
222 ttggacgctt tgtggga          17
225 <210> SEQ ID NO: 13

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Input Set : A:\PCT-IN2003-000235 Sequence listing.txt
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226 <211> LENGTH: 29
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: This mutagenic primer was synthetically generated
233 <400> SEQUENCE: 13
234 caagagggtt ctcaaccat ccagttaaga 29
237 <210> SEQ ID NO: 14
238 <211> LENGTH: 31
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: This mutagenic primer was synthetically generated
245 <400> SEQUENCE: 14
246 ttttggaaatg gaggcaattc gagcaatcta a 31
249 <210> SEQ ID NO: 15
250 <211> LENGTH: 25
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: This forward primer for the wild type barstar gene was
256 synthetically generated
258 <400> SEQUENCE: 15
259 cctcatgaaa aaagcagtca ttaac 25
262 <210> SEQ ID NO: 16
263 <211> LENGTH: 26
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: This reverse primer for the wild type barstar gene was
269 synthetically generated
271 <400> SEQUENCE: 16
272 ggtcttagatt aagaaagtat gatgg 26
275 <210> SEQ ID NO: 17
276 <211> LENGTH: 24
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: This forward primer for the modified barstar gene was
282 synthetically generated
284 <400> SEQUENCE: 17
285 cctcatgaag aaggctgtga tc当地 24
288 <210> SEQ ID NO: 18
289 <211> LENGTH: 29
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: This reverse primer for the modified barstar gene was
295 synthetically generated

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Input Set : A:\PCT-IN2003-000235 Sequence listing.txt
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297 <400> SEQUENCE: 18

298 ctagtctaga ttaagaaaaga atgatagtg

29

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/563,571

DATE: 01/19/2006

TIME: 13:30:57

Input Set : A:\PCT-IN2003-000235 Sequence listing.txt
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L:17 M:270 C: Current Application Number differs, Replaced Current Application No

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date